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Dynamic documents: mobile wireless access to the

[Kaashoek, M.F.](#) [Pinckney, T.](#) [Tauber, J.A.](#)

Lab. for Comput. Sci., MIT, Cambridge, MA, USA;

*This paper appears in: **Mobile Computing Systems and Applications, 199 Proceedings., Workshop on***

Meeting Date: 12/08/1994 - 12/09/1994

Publication Date: 8-9 Dec. 1994

Location: Santa Cruz, CA USA

On page(s): 179 - 184

Reference Cited: 22

Inspec Accession Number: 4924002

Abstract:

We propose dynamic documents as an approach to extending and customizing WWW/Mosaic for mobile computing platforms. Dynamic documents are programs executed on a mobile platform to generate a document; they are implemented as scripts. We have modified the NCSA Mosaic web client to run the dynamic documents through a modified Tcl interpreter. The interpreter is designed to execute commands that do not violate safety. To hide the latencies of slow links we have modified the Mosaic client to perform caching and prefetching. The policies for caching and prefetching can be under control of dynamic documents, allowing the strategies to be document specific. Using dynamic documents, we have built an adaptive E-mail browser that employs application specific caching and prefetching strategies. The browser and the displayed E-mail messages are dynamically customized to the computing environment in which they run.

Index Terms:

[Internet](#) [NCSA Mosaic web client](#) [Tcl scripts](#) [WWW](#) [WWW/Mosaic](#) [adaptive E-mail browser](#) [caching](#) [dynamic documents](#) [hypermedia](#) [information retrieval](#) [internetworking](#) [mobile communication](#) [mobile computing environment](#) [mobile computing platforms](#) [mobile platform](#) [mobile wireless access](#) [modified Tcl interpreter](#) [online front-ends](#) [prefetching](#) [prefetching strategies](#) [wide area networks](#) [Internet](#) [NCSA Mosaic web client](#) [Tcl scripts](#) [WWW](#) [WWW/Mosaic](#) [adaptive E-mail browser](#) [caching](#) [dynamic documents](#) [hypermedia](#) [information retrieval](#) [internetworking](#) [mobile communication](#) [mobile computing environment](#) [mobile computing platforms](#) [mobile platform](#) [mobile wireless access](#) [modified Tcl interpreter](#) [online front-ends](#)